

DOI et al.
Appln. No. 09/995,814
Preliminary Amendment

REMARKS

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,



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APPENDIX

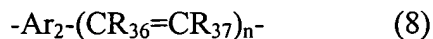
VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE SPECIFICATION:

The specification is changed as follows:

Page 3, paragraph bridging pages 3-4:

In formulae (2) to (7), X_1 , X_3 , X_5 , X_7 and X_9 each independently represent a group selected from $-\text{CR}_{21}=\text{CR}_{22}-$, $-\text{CR}_{23}=\text{N}-$, $-\text{N}=\text{CR}_{24}-$, $-\text{O}-\text{CO}-$, $-\text{CR}_{25}\text{R}_{26}-$, $-\text{CO}$, $-\text{O}-$, $-\text{S}-$, $-\text{Se}-$, $-\text{NR}_{27}-$ and $-\text{SiR}_{28}\text{R}_{29}-$; X_2 , X_4 , X_6 , X_8 and X_{10} to X_{13} each independently represent a group selected from $-\text{CR}_{30}=$ and $-\text{N}=$; R_3 to R_{30} each independently represent a hydrogen atom or a substituent selected from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, aryl group, aryloxy group, arylsilyl group, arylamino group, arylalkyl group, arylalkoxy group, arylalkylsilyl group, arylalkylamino group, arylalkenyl group, arylalkinyl group, monovalent heterocyclic compound group and cyano group; at least one of R_3 to R_{30} is not a hydrogen atom.

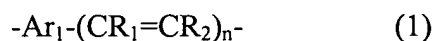


In the formula, Ar_2 represents an arylene group or divalent heterocyclic compound group, but the group is not represented by any of formulae (2) to (7); Ar_2 may have one or more substituents; when Ar_2 has a plurality of substituents, they may be the same or different; R_{36} and R_{37} each independently represent a group selected from a hydrogen atom, alkyl groups, aryl groups, monovalent heterocyclic compound groups and a cyano group; and n represents 0 or 1.

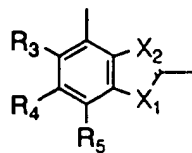
Also, the present invention relates to a polymer light emitting device comprising at least a light emitting layer between a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semi-transparent wherein the light emitting layer comprises the above polymeric fluorescent substance.

IN THE CLAIMS:

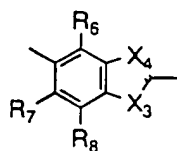
1. A polymeric fluorescent substance exhibiting fluorescence in the solid state, having a polystyrene reduced number-average molecular weight of 1×10^3 to 1×10^8 , and comprising one or more repeating units of formula (1) and one or more repeating units of formula (8),



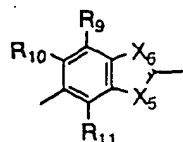
in the formula, Ar_1 is a divalent group represented by the following formulae (2) to (7); R_1 and R_2 each independently represent a group selected from a hydrogen atom, alkyl groups, aryl groups, monovalent heterocyclic compound groups and cyano group; and n is 0 or 1,



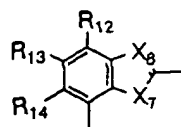
(2)



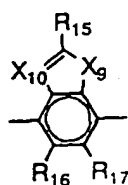
(3)



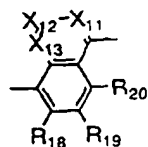
(4)



(5)



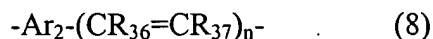
(6)



(7)

in the formulae (2) to (7), X_1 , X_3 , X_5 , X_7 and X_9 each independently represent a group selected from $-CR_{21}=CR_{22}-$, $-CR_{23}=N-$, $-N=CR_{24}-$, $-O-CO-$, $-CR_{25}R_{26}-$, $-CO-$, $-O-$, $-S-$, $-Se-$, $-NR_{27}-$ and $-$

SiR₂₈R₂₉-; X₂, X₄, X₆, X₈ and X₁₀ to X₁₃ each independently represent a group selected from -
CR₃₀= and -N=; R₃ to R₃₀ each independently represent a hydrogen atom or a substituent selected
from alkyl group, alkoxy group, alkylthio group, alkylsilyl group, alkylamino group, aryl group,
aryloxy group, arylsilyl group, arylamino group, arylalkyl group, arylalkoxy group, arylalkylsilyl
group, arylalkylamino group, arylalkenyl group, arylalkinyl group, monovalent heterocyclic
compound group and cyano group; at least one of R₃ to R₃₀ is not a hydrogen atom,



In the formula, Ar₂ represents an arylene group or divalent heterocyclic compound group, but the
group is not represented by any of formulae (2) to (7); Ar₂ may have one or more substituents;
when Ar₂ has a plurality of substituents, they may be the same or different; R₃₆ and R₃₇ each
independently represent a group selected from a hydrogen atom, alkyl groups, aryl groups,
monovalent heterocyclic compound groups and a cyano group; and m represents 0 or 1.